



INFINOVA CCTV VARI-FOCAL LENS MANUAL

V1121-308, V1122-308, V1123-308, V1121-2812, V1122-2812, V1123-2812, V1121-550, V1122-550, V1123-550, V1121-20100, V1122-20100

Thank you very much for purchasing this Infinova CCTV lens.

In order to understand the lens specifications and performances, please read this manual thoroughly. Please handle the lens with care.

MOUNT TYPE

CS mount is equipped with Infinova CCTV lens as follow. Before you use the lens, please make sure that the mount type matches that on your camera.

CS MOUNT

V1121-308, V1122-308, V1123-308, V1121-2812, V1122-2812, V1123-2812, V1121-550, V1122-550, V1123-550, V1123-550, V1121-20100, V1122-20100

INSTALLATION ON CAMERA

The lens can be installed by screwing it clockwise into CS-mount on the CCTV camera. Once the lens is screwed in completely to its mechanical stop position, you will then be able to rotate lens chassis back to suit the set-up position of the camera.

WIRING DIAGRAM

Please read the user's manual for the devices such as the camera and controller before wiring. Then please follow the chart below to insure the right connection.

| V1123-308, V1123-2812, V1123-550 | V1122-2812, V1122-550, V1122-308, V1122-20100 | | |
|---|---|--|--|
| Cable RedPower Supply WhiteVS or V signal BlackGND ShieldGND | Cable OrangeControl (-) YellowControl (+) RedDrive (+) BlackDrive (-) | | |
| *Connecting Red (Power Supply) and Black (GND) Cables in the other way to the camera by mistake may Cause the failure of the lens internal circuit. | *When adding plus Voltage to Drive (+). Will move to the opening direction. | | |

IRIS

V1122-308, V1122-2812, V1122-550, V1122-20100 if the camera has a selection switch between Video and DC. Please set it to DC.

V1123-308, V1123-2812, V1123-550 if the camera has a selection switch between Video and DC. Please set it Video.(LEVEL ADJUSTMENT)

| MONITOR SCREEN | LEVELADJUSTMENT | | | | |
|------------------|--------------------|-----------------------|--|--|--|
| WONITOR SCREEN | V1123-308 | V1123-2812, V1123-550 | | | |
| To Make Brighter | Rotate C/W | Rotate counter C/W | | | |
| To Make Dimmer | Rotate counter C/W | Rotate C/W | | | |

^{*}C/W = clockwise

The video signal level is continuously adjustable from Low to High. If the brightness of the monitor screen dose not appears natural, please adjust the level as instructed.

Automatic Light Compensation (ALC) and level adjustment (LEVEL) can be accomplished by rotating the respective screws a couple of times until the optimal image is obtained. (ALC ADJUSTMENT)

| | ALC ADJUSTMENT | | |
|-------------------------------------|-----------------------|--------------------|--|
| LIGHT MEASUREMENT | V1123-2812, V1123-550 | V1123-308 | |
| Setting exposure to "Peak" light | Rotate counter C/W | Rotate C/W | |
| Setting exposure to "Average" light | Rotate C/W | Rotate counter C/W | |

^{*}If any hunting is observed on the screen, set ALC to average exposure image.

TO INSURE LONG TERM USE

SPECIFICATION

| MODEL Imager Size | | V1121-308, V1122-308 | V1121-2812, V1122-2812 | V1121-550, V1122-550 | V1121-20100 | | |
|----------------------|--------------|----------------------------|----------------------------|---------------------------|--|--|--|
| | | V1123-308 | V1123-2812 | V1123-550 | V1122-20100 | | |
| | | | 1/3" | | | | |
| F | Focal Length | 3.0-8mm | 2.8-12mm | 5-50mm | 20-100mm | | |
| Aperture | MANUAL IRIS | F 1.0~CLOSE | F 1.4~CLOSE | F 1.4~CLOSE | F 1.6~CLOSE | | |
| Range | AUTO IRIS | F 1.0~360 | F 1.4~360 | F 1.4~ CLOSE | F 1.6~360 (TELE) 2.8°, (WIDE) 13.6° | | |
| Angle of | Horizontal | (TELT) 36.0°, (WIDE) 91.0° | (TELE) 24.1°, (WIDE) 97.4° | (TELE) 5.6°, (WIDE) 53.6° | | | |
| View | Vertical | (TELT) 27.0°, (WIDE) 67.0° | (TELE) 18.1°, (WIDE) 72.5° | (TELE) 4.2°, (WIDE) 40.3° | (TELE) 2.1°, (WIDE) 10.2° | | |
| Mount-Type Dimension | | CS | | | | | |
| | | 40.2mm | 54.6mm | 110mm | | | |

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^{*}C/W=clock wise

 $^{{}^*\}text{Please}$ remove dust on the lens by using a blower or soft brush. Avoid touching the lens surface.

^{*}In order to remove fingerprints or oil stains on the lens surface, use lens cleaning paper or clean cotton cloth with a little cleaning liquid. Then, wipe off the stains lightly starting from the center of the lens surface. Please wipe the lens body with a silicon cloth. Avoid usin g any organic solvents such as thinner or benzene.



SPECIFICATION

| MODEL Auto iris (by manual) | | V1121-308, V1122-308 | V1121-2812, V1122-2812 | V1121-550, V1122-550 | V1121-20100 | | | | |
|-----------------------------|---------------------|------------------------------|------------------------|----------------------|------------------|--|--|--|--|
| | | V1123-308 V1123-2812 | | V1123-550 | V1122-20100 | | | | |
| | | V1121-308 | V1121-308 V1121-2812 | | V1121-20100 | | | | |
| A 4 - Tui- | Model | V1123-308 | V1123-2812 | V1123-550 | V1122-20100 | | | | |
| Auto Iris (VIDEO) | Power Supply | | DC8.5-16V | | | | | | |
| (VIDEO) | Input Signal | | VS or V Signal | | | | | | |
| | Model | V1122-308 | V1122-2812 | V1122-550 | V1122-20100 | | | | |
| Auto Iris | Resistance of Drive | $190 \Omega \pm 10\%$ (20°C) | | | | | | | |
| (DC) | Resistance of | 554 Ω <u>+</u> 10% (20°C) | 417 Ω±10% (20°C) | 1150 Ω±10% (20°C) | 700 Ω±10% (20°C) | | | | |
| | Max Voltage | 6V | | | | | | | |

Specifications are subject to change without notice.

INFINOVA PRODUCT SAFETY PRECAUTIONS

These precautionary statements are classified into two levels of danger depending on the content and grade of elements that comprise the product.

| ۸ | If the user does not obey these instructions and misuses | Λ | If the user does not obey these instructions and misuses the |
|----------|--|----------|--|
| ₩arnıng! | the product, serious injury or loss of life may occur. | Caution! | product, serious injury and/or property damage may occur. |

The following symbols are used in these precautionary statements.

| A Shock! | This symbol warns that an electrical current is present and electric shock may occur. | O Do not! | This symbol means that you should not disassemble the product. |
|----------|---|------------|---|
| Fire! | This is a fire hazard symbol that means there is the possibility of igniting fire. | Direction! | This symbol means that you should pay attention to certain handling procedures. |

WARNING

| Don't disassemble the unit or try to put any foreign substance in it, especially metal of flammable matter. Doing so could cause electrical shock and/or fire. | <u>♠</u> <u>∳</u> | Don't scratch, open, twist or heat the connector cable because doing so may cause fire and/or electric shock. | <u>♠</u> | Don't attempt to use product it you suspect something isn't right as in seeing smoke or detecting a strange smell. If you use the product under these conditions fire and/or electric shock could occur. | ♠ ♦ ♦ |
|---|----------------------|--|---------------------------|--|--------------|
| Please keep the unit away from water. If water should get inside the unit, stop using immediately, otherwise electric shock and/or fire may occur. | | If the connector cable is cracked or damaged, please exchange. If you continue to use the damaged cable, fire and/or electric shock may results. | ♠ ♦ ○ | Don't look through the lens directly at the sun since this could cause blindness. | 0 |
| Don't place the unit near extreme heat, flame or gas since combustion may occur resulting in fire. | ⊘ | Don't try to repair the unit or any power source since that may cause fire and/or electric shock. | <u>♠</u> <u>♠</u> ⊘ | Keep the product out of the reach of children. If the product fell on a child, injury could occur. | 0 |

CAUTION

| Don't place the product in locations with extremely low or high temperatures. Don't use the product in areas that are hotter than 60 degrees Centigrade or colder than –10 degrees Centigrade. Such extremes will effect the quality performance of the product and could damage it. | 0 | Don't plug in or pull out the cable to or form an electrical outlet with wet hands. This may result in electric shock. | <u>♠</u> | Don't place the product near a stove or humidifier or any place where there is high heat or moisture. Fire and/or electric shock may occur. | <u>♠</u> ♦ |
|--|---|--|---------------------|--|------------|
| Don't point the lens directly at the sun or other sensor light since that could damage the image sensor on the camera and result in poor image quality. | 0 | When attaching the lens to the camera body, make sure you grip it securely to avoid the possibility of the lens falling and becoming damage. | ⊘ | If you going to connect the product with another product, please read the connection instructions from both product manuals carefully before attempting any connection. Otherwise damage may result to one or both products. | <u>♠</u> |
| Don't drop or hit the product forcefully. This may cause product performance failure. | 0 | When strong the lens, keep it out of direct sunlight. Fire could occur as result of the light being reflected off the lens onto a flammable substance. | 0 | If you going to use a lens that has a tripod mount but are using camera body that is heavier than the lens, please use the tripod | 9 |
| Don't place the connector cable next to a heater since it could melt and cause fire and/or electric shock. | 0 | Don't place in dusty and humid place. Fire and/or electric shock may occur. | $\lozenge \lozenge$ | mount on the camera. Failure to do so could result in severe damage to the lens. | |

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